

## Global PV Storage Insights

# Expected ROI of residential solar battery project in New Zealand 2026



## Overview

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Can batteries solve New Zealand's energy crisis?

Batteries alone do not solve the challenge New Zealand has of higher energy demand but lower renewable energy availability in winter. The combination of solar PV and batteries might help with this, especially if PV and batteries are deployed in locations with relatively higher winter solar generation.

What is the return on investment for a solar power system?

A grid-connected solar power system in New Zealand typically delivers a return on investment (ROI) roughly between 12% and 18%. Use our solar calculator to estimate the return you can expect for your property. What's The Payback Period for a Power Power System?

Installing a solar power system is a one-time, upfront investment.

How much solar energy does a home generate in New Zealand?

From using the solar calculator, the estimated annual solar generation can be found for any home in New Zealand. Using the example of a 5kW solar power system on a 20-degree, north-facing roof on a home in Grey Lynn, Auckland, the solar power system will generate 7,030kWh of solar energy in a year.

Is solar PV a viable option for New Zealand households?

This is the first study in New Zealand to use detailed and high-quality data for both solar supply and residential demand. It shows solar PV is likely to be financially viable for a significant proportion of New Zealand households, particularly for those who consume a lot of energy.

Are batteries worth it in New Zealand?

Batteries can increase the financial benefits from solar PV but remain too expensive for many households in New Zealand. Instead of batteries, hot water diverters and timers can improve returns with lower upfront costs by

making use of existing hot water cylinders to store solar energy.

Which New Zealand solar panels have the best returns?

Among the main centres studied, Queenstown has the best average returns while Wellington has the lowest. North-facing panels with a tilt of 30° or more are best. East- and west-facing panels don't meaningfully improve generation during peak periods in New Zealand.

## Expected ROI of residential solar battery project in New Zealand 20

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### Contact Energy Picks Tesla Megapacks to Power 100MW Battery in New Zealand

New Zealand's Contact Energy has announced plans to build a 100-megawatt (MW) grid-scale battery at Glenbrook, near Auckland, New Zealand, powered by Tesla ...

### Harmony Energy JV starts building 202-MWp solar ...

Harmony Energy and its joint venture partner First Renewables held a ceremony to launch the construction of a 202-MWp solar project in New Zealand, touted as the largest in the country.



### Contact to develop a grid-scale 100 MW battery in ...

In this video Contact's CEO Mike Fuge talks about the grid-scale battery investment at Glenbrook, south Auckland. Contact will start work at the Glenbrook site immediately. The battery is expected to take up to 18 months to ...

### Meridian sets construction date for 120MW solar PV plant in New Zealand

Meridian Energy will begin construction of its 120MW Ruakaka Solar Farm in Tai Tokerau

Northland, New Zealand, in August 2025.

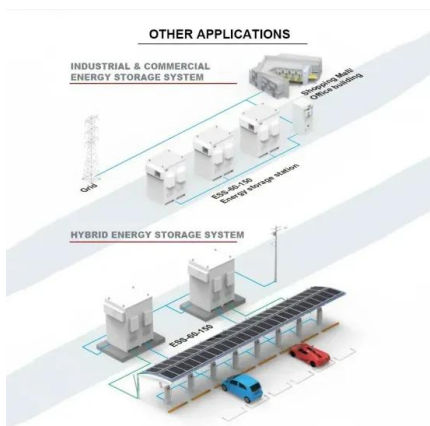


## Understanding the value of residential solar in NZ , EECA

This research analyses how variabilities such as solar resource, electricity costs and storage options impact the value of solar for New Zealand households.

## Construction due to start this year on NZ's largest solar farm

Plans have been revealed for what's believed to be New Zealand's largest solar farm. The joint British-New Zealand venture has consent to build the 182ha Tauhei Solar Farm ...



## Harmony Energy to co-develop 200MWac solar PV ...

UK BESS developer Harmony Energy has established a joint venture with New Zealand energy group Clarus' subsidiary First Renewables to develop a 200MWac solar project.

## New Zealand welcomes first big battery to national grid

New Zealand's transition to a renewable energy future has taken a significant step forward with the nation's first grid-scale battery energy storage project now offering injectable reserves to



### [Energy , Beehive.govt.nz](https://www.energy.govt.nz)

Supercharging residential solar power generation  
Common sense changes in the energy and building consent systems will drive greater residential solar uptake in New ...

## Are Solar Panels Worth The Investment In New Zealand?

New Zealand Residential Battery Market (2025-2031) , Forecast, Segmentation, Competitive Landscape, Industry, Outlook, Companies, Trends, Growth, Size & Revenue, Share, Value, ...



### [NZ Battery Project](#)

The NZ Battery Project was set up in 2020 to explore possible renewable energy storage solutions for when our hydro lakes run low for long periods. A pumped hydro scheme at Lake Onslow was one of the options ...

## Glenbrook-Ohurua Battery

The details Location: New Zealand Steel's Glenbrook site in south Auckland Capacity: 100MW (200 MWh) Energy type: Battery storing electricity generated by New Zealand's hydro, geothermal and wind power stations when there is low ...



## Contents

This second emissions reduction plan (ERP2) is the Government's plan to meet the second emissions budget (EB2) for the period 2026-30. This final plan incorporates feedback and ...

## Meridian Energy to begin construction on \$227m solar farm in New Zealand

Meridian has contracted renewable energy specialist Ethical Power for construction and operations, with initial generation anticipated in late 2026 and full generation ...



## Contact confirms investment in grid-scale battery

Contact will manage the project overall and will start construction at the Glenbrook site immediately. Contact continues to advance further battery investment options and has been ...

## New Zealand Solar Power Market Outlook to 2028

The publisher's New Zealand Solar Power Market Outlook report consolidate the developments and build a perspective on growth from the point of view of the solar sector, in its current and ...



### Solar power in New Zealand

Solar potential of New Zealand Solar panels on a home in Auckland Solar power in New Zealand is increasing in capacity, in part due to price supports created through the emissions trading ...

## Solar Installed System Cost Analysis , Solar Market ...

Solar Installed System Cost Analysis NREL analyzes the total costs associated with installing photovoltaic (PV) systems for residential rooftop, commercial rooftop, and utility-scale ground-mount systems. This work has ...



## Construction due to start this year on NZ's largest ...

Plans have been revealed for what's believed to be New Zealand's largest solar farm. The joint British-New Zealand venture has consent to build the 182ha Tauhei Solar Farm near Te Aroha in Waikato. Expected to ...

## 20 Biggest Solar Projects in New Zealand

Now, you can set up a lucrative solar installation business to tap this abundant energy source in any corner of the planet. But, before that, it's clever to research a bit about ...

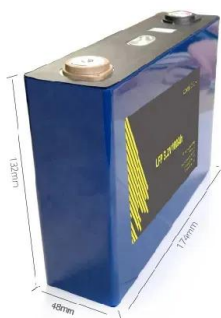
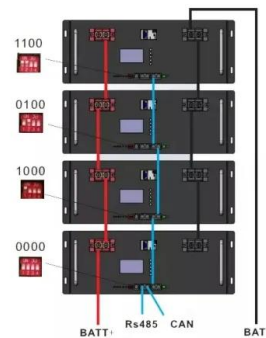


## Meridian Energy's first NZ solar farm begins construction in 2025

Meridian Energy's 130 megawatt Ruakaka solar farm in Northland is set to begin construction in August 2025. The project, which is the company's first solar farm in New ...

## The Economics of Battery Storage: Costs, Savings, ...

For instance, a residential solar-plus-storage system might have a different ROI compared to a large-scale utility battery storage project. Impact of Incentives and Subsidies



## Renewable Energy 2024

Introduction: Increasing Levels of Renewable Energy The need, and opportunity, for significant further investment in renewable energy generation in New Zealand has become increasingly clear in recent years. Large ...

## 'NZ's largest solar farm' due to start construction this ...

At commissioning in late 2026, it is expected to be New Zealand's largest solar farm at 202MWp. The solar farm will generate 280GWh of electricity annually, enough to power about 35,000 New Zealand homes.



## Top five solar PV plants in development in New Zealand

Solar PV capacity accounted for 16.4% of total power plant installations globally in 2023, according to GlobalData, with total recorded solar pv capacity of 1,496GW. This is ...

## 20 Biggest Solar Projects in New Zealand

Now, you can set up a lucrative solar installation business to tap this abundant energy source in any corner of the planet. But, before that, it's clever to research a bit about the market, your competitors, and the new ...



## The Best Solar ROI Calculator On Internet , RenewGenius

The ROI Calculator is designed to help you visualize the savings and benefits of transitioning to solar energy, Do your maths NOW!

## Commercial Solar for NZ Businesses: Costs, ROI, Suitability

Overview Commercial solar is no longer just about sustainability - it's a strategic opportunity for New Zealand businesses. This guide provides a clear, practical understanding of how ...



## [NZX, New Zealand's Exchange](#)

Construction of Meridian Energy's 130MW Ruakaka Solar Farm south of Whangarei is set to begin in August 2025, with the project receiving a final investment decision ...

## Are Solar Panels Worth It? Calculate Your Return on ...

Are solar panels worth it? We show you how to weigh the costs and benefits of going solar, and how to calculate your break even point.



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